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Astrolite[®] 625

Astrolite 5837

Product Description:

Astrolite[®] 625 (also known as, Alloy625, Inconel[®]625, Nicrofer[®]6020, Superimphy 625, Chronin 625, Haynes[®]625, Pyromet[®]625, Supermet 625 and Udimet[®]625) is a non-magnetic, nickel-based chromium-molybdenum alloy with excellent strength from room temperature up to about 1500°F (816°C).

Alloy 625 is widely used in a variety of high-temperature aerospace, chemical process industry, and power industry applications such as aircraft ducting systems, jet engine exhaust systems, and turbine shroud rings.

Astrolite[®] UltraGrade™ surface finish on the spooled wire promotes smooth feeding through welding equipment which may result in reduced tip wear in contact tips.

Astrolite[®] UltraGrade™ wire cleaning processes insure very clean wire surface for reliable welding performance.

Specifications:

AMS-5837, UNS-N06625, AWS A5.14 ERNiCrMo-3, MSRR 9500/237, OMAT 3/127.

Nominal Composition (% by weight) & Mechanical properties:

Nickel	62 (Balance)
Iron	5 max
Chromium	20 - 23
Molybdenum	8 – 10
Columbium	3.15 – 4.15
Cobalt	1 max
Other interstitials	Not reported

Tensile (ksi)	132
Density (LBs/Cubic inch)	0.305



Available Product Forms and Sizes, Packaging & Identification:

Straight Lengths	Spooled
AMS-2813 – Standard packaging AMS-2814 – Premium packaging <i>available upon request</i> Vapor barrier packaging <i>available upon request</i> . <i>1 LB and 5 LB bags available.</i>	Precision layer wound, with controlled cast and helix AMS-2813 – standard packaging AMS-2814 – Premium, vapor barrier packaging <i>available upon request</i> .
36" (914 mm) – Standard length. Other lengths <i>available on request</i> . Flag tagged on one end per AMS-2816. <i>Tagging of both ends available upon request.</i> Color coding to AMS-2819 or customer-specific specification is <i>available upon request</i> .	12" – Standard spool diameter <i>Other spool diameters; 4" & 8" diameter spools available on request.</i>
Diameters: 0.020", 0.025", 0.030", 0.035", 0.040", 0.045", 0.062", 0.078", 0.093", 0.125"	<i>Upon request special diameters and shapes may be available.</i>

DFARS Compliant

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